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10/694,005	10/28/2003	Yojiro Matsueda	117554	3671
25944 OLJEE & RER	7590 07/24/2007 RIDGE PLC		EXAMINER	
OLIFF & BERRIDGE, PLC P.O. BOX 19928			BODDIE, WILLIAM	
ALEXANDRIA	A, VA 22320		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/694,005	MATSUEDA ET AL.				
Office Action Summary	Examiner	Art Unit				
	William L. Boddie	2629				
The MAILING DATE of this communication app						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDON	N. mely filed  n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	'					
·=	This action is <b>FINAL</b> . 2b) ☐ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	:x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-8,11-15,20-24,26 and 30</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-8,11-15,20-24,26 and 30</u> is/are rejection	cted.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement					
are subject to restriction and/or	· election requirement.					
Application Papers						
9) The specification is objected to by the Examine	r.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Trib The Oath of declaration is objected to by the Ex	ammer. Note the attached Office	e Action of form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
<ul> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> </ul>						
3. Copies of the certified copies of the priority documents have been received in Application No						
application from the International Bureau	•	od iii uno italional olago				
* See the attached detailed Office action for a list	of the certified copies not receiv	ed.				
Attachment(s)	prose.					
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>	4) 🔲 Interview Summar Paper No(s)/Mail D	y (PTO-413) Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:					

#### **DETAILED ACTION**

1. In an amendment dated, April 25<sup>th</sup>, 2007, the Applicant amended claims 1, 5, 7, 11, 13, 22-24 and 26. Currently claims 1-8, 11-15, 20-24, 26 and 30 are currently pending.

### Response to Arguments

2. Applicant's arguments with respect to claims 1-8, 11-15, 20-24, 26 and 30 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-8, 11-12, 20-24 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohtaka et al. (US 6,151,000) in view of Kondo (US 6,777,888).

With respect to claim 1, Ohtaka discloses, an electro-optical device, comprising:

- a plurality of scanning lines (27 in fig. 4, for example);
- a plurality of sustaining lines (28 in fig. 4, for example);
- a plurality of electro-optical elements (col. 1, lines 4-10; col. 4, lines 33-36); and
- a plurality of pixels, each of the plurality of pixels having an electro-optical element (col. 1, lines 4-10; col. 4, lines 33-36), brightness of each of the electro-optical elements being set for each of a plurality of sub-frames (col. 4, lines 36-48; fig. 7d),

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which constitute one frame of a period (1 field is equivalent to one frame in fig. 7d) and each have a predetermined period (clear from fig. 7d), so that at least two levels of brightness can be set for one frame (col. 4, lines 44-48); and

a sub-frame having a longest period among the plurality of sub-frames being divided into a least two allocated sub-frames (SF1 and SF6 in fig. 7d; col. 8, line 62 – col. 9, line 2), and

the plurality of sub-frames, which are set for a series of electro-optical elements among the plurality of electro-optical elements (col. 1, lines 9-10), the series of electro-optical elements being connected to a scanning and sustaining line (note the two x-axis electrodes per pixel in fig. 4), end substantially simultaneously (clear from fig. 7d that the sub-frame sustaining period (grayed area) ends simultaneously).

Ohtaka does not expressly disclose a plurality of data lines, a reset transistor, a pixel circuit or connecting two scanning lines to the series of electro-optical elements.

Kondo discloses, an electro-optical device, comprising:

- a plurality of scanning lines (4, 5 and 14 in fig. 3);
- a plurality of data lines (9 in fig. 3; for each column of pixels);
- a plurality of electro-optical elements (1 in fig. 3); and

a plurality of pixel circuits (fig. 3; col. 1, line 14) to drive the plurality of electrooptical elements, each of the plurality of pixel circuits having a first transistor (M1 in fig. 3) and a storage capacitor (C1 in fig. 3) to store a data signal (col. 7, lines 20-22, for example) supplied via a data line (9 in fig. 3) among the plurality of data lines and the

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first transistor (clear from fig. 3); and a reset transistor (M4 in fig. 3) to reset the data signal stored in the storage capacitor (col. 9, lines 16-23);

wherein the electro-optical elements are connected to at least two scanning lines (4-5 and 14 in fig. 3), one of two scanning lines being connected to the reset transistor (14 in fig. 3), and end display periods based on a reset signal supplied to the reset transistor via the scanning line (clear from fig. 4 and col. 9, lines 21-23); and

brightness of each of the electro-optical elements being set based on the data signal stored in the storage capacitor (col. 7, lines 20-22, for example).

Kondo and Ohtaka are analogous art because they are both from the same field of endeavor namely driving and control circuitry for electro-optical displays.

At the time of the invention it would have been obvious to one of ordinary skill in the art to replace the addressing and pixel circuitry of Ohtaka with the pixel circuit, reset transistor and scanning lines of Kondo.

The motivation for doing so would have been to prolong the service life of the element (Kondo; col. 9, lines 23-28).

With respect to claim 2, Ohtaka and Kondo disclose, the electro-optical device according to claim 1 (see above).

Ohtaka further discloses, the sum of the period of the at least two allocated sub-frames (col. 8, line 29; largest luminous weight is 16, therefore the sum of the two divided sub-frames is 16) being set to 2<sup>n</sup> times as long as a sub-frame having a shortest period (shortest period or smallest luminous weight is 1) among N sub-frames of the plurality of sub-frames, wherein n is a number of sub-frames excluding the at least two

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allocated sub-frames (there are 4 sub-frames remaining after the divided sub-frames are discounted; as such it is clear 16 is 2<sup>4</sup> times larger than 1).

With respect to claim 3, Ohtaka and Kondo disclose, the electro-optical device according to claim 2 (see above).

Ohtaka further discloses, a sub-frame having the longest period (Sub4 period is 8 in fig. 7d) among the plurality of sub-frames excluding the at least two sub-frames being half as long as the sub-frames having the longest period among the plurality of sub-frames (8; clear this is half of 16, which corresponds to the longest sub-field prior to being divided).

With respect to claim 4, Ohtaka and Kondo disclose, the electro-optical device according to claim 1 (see above).

Ohtaka further discloses, the two sub-frames (SF1 and SF6 in fig. 7d) not being arranged consecutively in one frame of a period (clear from fig. 7d; col. 8, line 62 – col. 9, line 4).

With respect to claim 5, Ohtaka discloses, an electro-optical device, comprising:

- a plurality of scanning lines (27 in fig. 4, for example);
- a plurality of sustaining lines (28 in fig. 4, for example);
- a plurality of electro-optical elements (col. 1, lines 4-10; col. 4, lines 33-36); and
- a plurality of pixels, each of the plurality of pixels having an electro-optical element (col. 1, lines 4-10; col. 4, lines 33-36), brightness of each of the electro-optical elements being set for each of a plurality of sub-frames (col. 4, lines 36-48; fig. 7d),

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which constitute one frame of a period (1 field is equivalent to one frame) and each have a predetermined period (clear from fig. 7d), so that at least two levels of brightness can be set for one frame (col. 4, lines 44-48), and

lengths of the plurality of sub-frames excluding a sub-frame having a longest period (SF1 and SF6 in fig. 7d) being set to a period in binary weighted (col. 8, line 29, for example); and

the sub-frame having the longest period among the plurality of sub-frames being divided into at least two allocated sub-frames (col. 8, line 62 – col. 9, line 2), and

the plurality of sub-frames, which are set for a series of electro-optical elements among the plurality of electro-optical elements (col. 1, lines 9-10), the series of electro-optical elements being connected to a scanning and sustaining line (note the two x-axis electrodes per pixel in fig. 4), end substantially simultaneously (clear from fig. 7d that the sub-frame sustaining period (grayed area) ends simultaneously).

Ohtaka does not expressly disclose a plurality of data lines, a reset transistor, a pixel circuit or connecting two scanning lines to the series of electro-optical elements.

Kondo discloses, an electro-optical device, comprising:

- a plurality of scanning lines (4, 5 and 14 in fig. 3);
- a plurality of data lines (9 in fig. 3; for each column of pixels);
- a plurality of electro-optical elements (1 in fig. 3); and

a plurality of pixel circuits (fig. 3; col. 1, line 14) to drive the plurality of electrooptical elements, each of the plurality of pixel circuits having a first transistor (M1 in fig. 3) and a storage capacitor (C1 in fig. 3) to store a data signal (col. 7, lines 20-22, for example) supplied via a data line (9 in fig. 3) among the plurality of data lines and the first transistor (clear from fig. 3); and a reset transistor (M4 in fig. 3) to reset the data signal stored in the storage capacitor (col. 9, lines 16-23); wherein the electro-optical elements are connected to at least two scanning lines (4-5 and 14 in fig. 3), one of two scanning lines being connected to the reset transistor (14 in fig. 3), and end display periods based on a reset signal supplied to the reset transistor via the scanning line (clear from fig. 4 and col. 9, lines 21-23); and

brightness of each of the electro-optical elements being set based on the data signal stored in the storage capacitor (col. 7, lines 20-22, for example).

Kondo and Ohtaka are analogous art because they are both from the same field of endeavor namely driving and control circuitry for electro-optical displays.

At the time of the invention it would have been obvious to one of ordinary skill in the art to replace the addressing and pixel circuitry of Ohtaka with the pixel circuit, reset transistor and scanning lines of Kondo.

The motivation for doing so would have been to prolong the service life of the element (Kondo; col. 9, lines 23-28).

With respect to claims 6, Ohtaka and Kondo disclose, the electro-optical device according to claims 5 (see above).

Ohtaka further discloses, the two sub-frames (SF1 and SF6 in fig. 7d) not being arranged consecutively in one frame of a period (clear from fig. 7d; col. 8, line 62 – col. 9, line 4).

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With respect to claim 7, Ohtaka discloses, an electro-optical device, comprising:

a plurality of scanning lines (27 in fig. 4, for example);

a plurality of sustaining lines (28 in fig. 4, for example);

a plurality of electro-optical elements (col. 1, lines 4-10; col. 4, lines 33-36); and

a plurality of pixels, each of the plurality of pixels having an electro-optical

element (col. 1, lines 4-10; col. 4, lines 33-36), brightness of each of the electro-optical

elements being set for each of a plurality of sub-frames (col. 4, lines 36-48; fig. 7d),

which constitute one frame of a period (1 field is equivalent to one frame) and each

have a predetermined period (clear from fig. 7d), so that at least two levels of brightness

can be set for one frame (col. 4, lines 44-48); and

the sub-frame having the longest period among the plurality of sub-frames being divided into at least two allocated sub-frames (col. 8, line 62 – col. 9, line 2), and

a sub-frame having the longest period among n (n denotes a natural number) sub-frames (SF4 in fig. 7d) of the plurality of sub-frames, excluding the at least two allocated sub-frames (SF1 and SF6; n is seen as 4), being set to 2<sup>n-1</sup> times as long as a sub-frame having the shortest period (SF2 in fig. 7d) among the n sub-frames (SF4 is equal to 2<sup>3</sup>=2<sup>4-1</sup>; sub1 is equal to 1) and brightness for the one frame can be set to 2<sup>n+1</sup> levels (col. 8, lines 28-32 discusses the possibility of 32=2<sup>4+1</sup> levels), and

the plurality of sub-frames, which are set for a series of electro-optical elements among the plurality of electro-optical elements (col. 1, lines 9-10), the series of electro-optical elements being connected to a scanning and sustaining line (note the two x-axis

electrodes per pixel in fig. 4), end substantially simultaneously (clear from fig. 7d that the sub-frame sustaining period (grayed area) ends simultaneously).

Ohtaka does not expressly disclose a plurality of data lines, a reset transistor, a pixel circuit or connecting two scanning lines to the series of electro-optical elements.

Kondo discloses, an electro-optical device, comprising:

a plurality of scanning lines (4, 5 and 14 in fig. 3);

a plurality of data lines (9 in fig. 3; for each column of pixels);

a plurality of electro-optical elements (1 in fig. 3); and

a plurality of pixel circuits (fig. 3; col. 1, line 14) to drive the plurality of electrooptical elements, each of the plurality of pixel circuits having a first transistor (M1 in fig.
3) and a storage capacitor (C1 in fig. 3) to store a data signal (col. 7, lines 20-22, for
example) supplied via a data line (9 in fig. 3) among the plurality of data lines and the
first transistor (clear from fig. 3); and a reset transistor (M4 in fig. 3) to reset the data
signal stored in the storage capacitor (col. 9, lines 16-23); wherein the electro-optical
elements are connected to at least two scanning lines (4-5 and 14 in fig. 3), one of two
scanning lines being connected to the reset transistor (14 in fig. 3), and end display
periods based on a reset signal supplied to the reset transistor via the scanning line
(clear from fig. 4 and col. 9, lines 21-23).

Kondo and Ohtaka are analogous art because they are both from the same field of endeavor namely driving and control circuitry for electro-optical displays.

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At the time of the invention it would have been obvious to one of ordinary skill in the art to replace the addressing and pixel circuitry of Ohtaka with the pixel circuit, reset transistor and scanning lines of Kondo.

The motivation for doing so would have been to prolong the service life of the element (Kondo; col. 9, lines 23-28).

With respect to claim 8, Ohtaka and Kondo disclose, the electro-optical device according to claim 7 (see above).

Ohtaka further discloses, the two sub-frames (SF1 and SF6 in fig. 7d) not being arranged consecutively in one frame of a period (clear from fig. 7d; col. 8, line 62 – col. 9, line 4).

With respect to claim 11, Ohtaka discloses, an electro-optical device, comprising:

a plurality of scanning lines (27 in fig. 4, for example);

a plurality of sustaining lines (28 in fig. 4, for example);

a plurality of electro-optical elements (col. 1, lines 4-10; col. 4, lines 33-36); and

a plurality of pixels, each of the plurality of pixels having an electro-optical element (col. 1, lines 4-10; col. 4, lines 33-36), brightness of the electro-optical element being set for each of a plurality of sub-frames (col. 4, lines 36-48; fig. 7d), which constitute one frame (one field is equivalent to one frame) of a period and each have a predetermined period (clear from fig. 7d), so that at least 2<sup>n</sup> levels of brightness (n=4; 2<sup>4</sup> ≤ 32 levels possible; col. 8, lines 28-32; col. 9, lines 2-4) can be set for one frame,

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number of the plurality of sub-frames being n+1 or more (number of sub-frames in fig. 7d is  $6 \ge 4+1$ ), and

the sub-frame having the longest period among the plurality of sub-frames being divided into at least two allocated sub-frames (col. 8, line 62 – col. 9, line 2), and

the plurality of sub-frames, which are set for a series of electro-optical elements among the plurality of electro-optical elements (col. 1, lines 9-10), the series of electro-optical elements being connected to a scanning and sustaining line (note the two x-axis electrodes per pixel in fig. 4), end substantially simultaneously (clear from fig. 7d that the sub-frame sustaining period (grayed area) ends simultaneously).

Ohtaka does not expressly disclose a plurality of data lines, a reset transistor, a pixel circuit or connecting two scanning lines to the series of electro-optical elements.

Kondo discloses, an electro-optical device, comprising:

- a plurality of scanning lines (4, 5 and 14 in fig. 3);
- a plurality of data lines (9 in fig. 3; for each column of pixels);
- a plurality of electro-optical elements (1 in fig. 3); and

a plurality of pixel circuits (fig. 3; col. 1, line 14) to drive the plurality of electrooptical elements, each of the plurality of pixel circuits having a first transistor (M1 in fig.
3) and a storage capacitor (C1 in fig. 3) to store a data signal (col. 7, lines 20-22, for
example) supplied via a data line (9 in fig. 3) among the plurality of data lines and the
first transistor (clear from fig. 3); and a reset transistor (M4 in fig. 3) to reset the data
signal stored in the storage capacitor (col. 9, lines 16-23);

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wherein the electro-optical elements are connected to at least two scanning lines (4-5 and 14 in fig. 3), one of two scanning lines being connected to the reset transistor (14 in fig. 3), and end display periods based on a reset signal supplied to the reset transistor via the scanning line (clear from fig. 4 and col. 9, lines 21-23).

Kondo and Ohtaka are analogous art because they are both from the same field of endeavor namely driving and control circuitry for electro-optical displays.

At the time of the invention it would have been obvious to one of ordinary skill in the art to replace the addressing and pixel circuitry of Ohtaka with the pixel circuit, reset transistor and scanning lines of Kondo.

The motivation for doing so would have been to prolong the service life of the element (Kondo; col. 9, lines 23-28).

With respect to claim 12, Ohtaka and Kondo disclose, the electro-optical device according to claim 11 (see above).

Ohtaka further discloses, a sub-frame having a longest period (SF4=8) among the plurality of sub-frames, excluding the at least two allocated sub-frames, being 2<sup>n-1</sup> times (4=n from claim 11; 2<sup>3</sup>=8) as long as a sub-frame having a shortest period (SF2=1).

With respect to claims 20-21, Ohtaka and Kondo disclose, the electro-optical device according to claim 1 (see above).

Kondo further discloses, the electronic element being a current-driven organic EL element (col. 2, lines 6-9).

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With respect to claim 22, as claim 22 is nothing more than a method step claim having identical limitations to those recited in claim 4. Therefore claim 22 is rejected on the same merits shown above in claims 1 and 4.

With respect to claim 23, as claim 23 is nothing more than a method step claim having identical limitations to those recited in claim 6. Therefore claim 23 is rejected on the same merits shown above in claims 5 and 6.

With respect to claim 24, as claim 24 is nothing more than a method step claim having identical limitations to those recited in claim 8. Therefore claim 22 is rejected on the same merits shown above in claims 7 and 8.

With respect to claim 30, Ohtaka and Kondo disclose, the electro-optical device according to claim 1 (see above).

Ohtaka further discloses, an electronic apparatus (col. 1, lines 4-11), comprising: an electro-optical device according to claim 1 (see above).

5. Claims 13-15 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ohtaka et al. (US 6,151,000) in view of Kondo (US 6,777,888) and further in view of Wakitani et al. (US 5,940,142).

With respect to claim 13, Ohtaka discloses, an electro-optical device, which is capable of setting at least two levels of brightness for one frame (col. 4, lines 44-48), the electro-optical device comprising:

- a plurality of scanning lines (27 in fig. 4, for example);
- a plurality of sustaining lines (28 in fig. 4, for example);
- a plurality of electro-optical elements (col. 1, lines 4-10; col. 4, lines 33-36); and

electro-optical elements that are controlled to take either an ON state or an OFF state based on gray scale data for each of a plurality of sub-frames (col. 4, lines 35-47), which constitute one frame of a period and each have a predetermined period (clear from fig. 7d); and

the sub-frame having the longest period among the plurality of sub-frames being divided into at least two allocated sub-frames (col. 8, line 62 – col. 9, line 2), and

the plurality of sub-frames, which are set for a series of electro-optical elements among the plurality of electro-optical elements (col. 1, lines 9-10), the series of electro-optical elements being connected to a scanning and sustaining line (note the two x-axis electrodes per pixel in fig. 4), end substantially simultaneously (clear from fig. 7d that the sub-frame sustaining period (grayed area) ends simultaneously)...

Ohtaka does not expressly disclose a plurality of data lines, a reset transistor, a pixel circuit or connecting two scanning lines to the series of electro-optical elements, or that two of the plurality of sub-frames are controlled to always concurrently take either the ON state or the OFF state.

Kondo discloses, an electro-optical device, comprising:

- a plurality of scanning lines (4, 5 and 14 in fig. 3);
- a plurality of data lines (9 in fig. 3; for each column of pixels);
- a plurality of electro-optical elements (1 in fig. 3); and

a plurality of pixel circuits (fig. 3; col. 1, line 14) to drive the plurality of electrooptical elements, each of the plurality of pixel circuits having a first transistor (M1 in fig. 3) and a storage capacitor (C1 in fig. 3) to store a data signal (col. 7, lines 20-22, for

example) supplied via a data line (9 in fig. 3) among the plurality of data lines and the first transistor (clear from fig. 3); and a reset transistor (M4 in fig. 3) to reset the data signal stored in the storage capacitor (col. 9, lines 16-23);

wherein the electro-optical elements are connected to at least two scanning lines (4-5 and 14 in fig. 3), one of two scanning lines being connected to the reset transistor (14 in fig. 3), and end display periods based on a reset signal supplied to the reset transistor via the scanning line (clear from fig. 4 and col. 9, lines 21-23).

Kondo and Ohtaka are analogous art because they are both from the same field of endeavor namely driving and control circuitry for electro-optical displays.

At the time of the invention it would have been obvious to one of ordinary skill in the art to replace the addressing and pixel circuitry of Ohtaka with the pixel circuit, reset transistor and scanning lines of Kondo.

The motivation for doing so would have been to prolong the service life of the element (Kondo; col. 9, lines 23-28).

Neither Kondo nor Ohtaka expressly disclose, that two of the plurality of subframes are controlled to always concurrently take either the ON state or the OFF state.

Wakitani discloses, at least two of the plurality of sub-frames (sub8a and sub8b) being controlled to always concurrently take either the ON state or the OFF state (col. 10, lines 38-40; also note the concurrent operation of sub8a/8b in fig. 3).

Ohtaka, Kondo and Wakitani are analogous art because they are both from the same field of endeavor namely grayscale design and driving schemes for electro-optical devices.

At the time of the invention it would have been obvious to one of ordinary skill in the art to concurrently drive the allocated sub-frames of Ohtaka and Kondo, as taught by Wakitani.

The motivation for doing so would have been to provide a unique gray-scale value (16 in Ohtaka's case) that allows for additional gradations in the driving of the display.

With respect to claim 14, Ohtaka, Kondo and Wakitani disclose, the electrooptical device according to claim 13 (see above).

Ohtaka discloses, the at least allocated two sub-frames having the same period of length (SF1 = SF6 is clear from fig. 7d; col. 8, line 62 – col. 9, line 2).

With respect to claim 15, Ohtaka, Kondo and Wakitani disclose, the electrooptical device according to claim 13 (see above).

Ohtaka further discloses, the two sub-frames (SF1 and SF6 in fig. 7d) not being arranged consecutively in one frame of a period (clear from fig. 7d; col. 8, line 62 – col. 9, line 4).

With respect to claim 26, as claim 26 is nothing more than a method step claim having identical limitations to those recited in claims 11-15. Therefore claim 26 is rejected on the same merits shown above in claims 11-15.

#### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William L. Boddie whose telephone number is (571) 272-0666. The examiner can normally be reached on Monday through Friday, 7:30 - 4:30 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

7/10/07 wlb

SUMATI LEFKOWITZ
SUPERVISORY PATENT EXAMINER